Tomorrow's Weather Today™

Model WS-6020U-IT
Solar Powered
Wireless Temperature Station

MANUAL/QUICK SETUP GUIDE

Solar panels

MIN/MAX key

Wall mount location

Battery cover
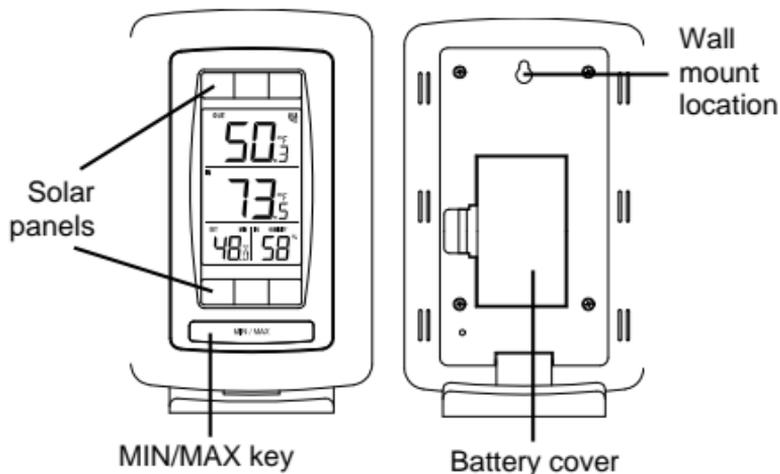
FEATURES

- Receives wireless outdoor temperature Solar cell powers the included 2 "AA" rechargeable alkaline batteries
- Works with regular Alkaline batteries with a flip of a switch
- Stores solar power for continuous operation High-efficiency modern solar panel maintains full charge with minimal light
- Outdoor/Indoor temperature with MIN / MAX records (°F)
- Indoor humidity
- Use the 2 "AA" Rechargeable Alkaline batteries (included) OR 2 "AA" Alkaline batteries required (not included). No need to change batteries when using rechargeable alkaline batteries because they receive power from the solar cell.

INITIAL SETUP (USING INCLUDED SOLAR RECHARGEABLE BATTERIES FROM THE FACTORY)

1. Open battery compartment on the back of the Temperature station and make sure that the battery switch under the battery compartment is positioned DOWN. <u>If it is not, please slide the switch down before proceeding.</u>
2. Locate the battery insulator tab and gently pull to remove it.

3. Next, slide the battery switch to the SOLAR (UP) position.

SWITCH UP
(SOLAR OPERATION)
(SOLAR-RECHARGEABLE BATTERIES) Slide switch UP once solar-rechargeable batteries are inserted and insulator tab is removed

SWITCH DOWN
(START-UP / RESET)
(STANDARD ALKALINES) Slide switch DOWN before (1) start-up / reset or (2) any type of battery replacement

BATTERY SWITCH

Battery Compartment
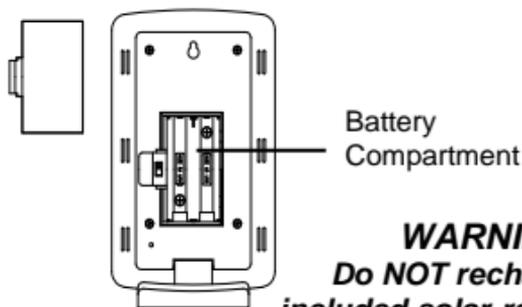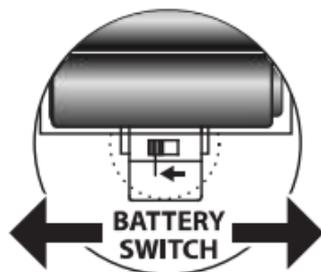
WARNING
Do NOT recharge the included solar-rechargeable batteries outside of this product because it will damage the batteries and other charging devices.

4. Continue to section labeled "**ACTIVATE SOLAR-POWERED OUTDOOR TRANSMITTER**"
5. If the solar panel is facing a permanent strong light source (eg., on top of a refrigerator with halogen lamp), please switch the clock to alkaline battery mode to avoid over-charging re-chargeable alkaline battery

**Model TX62U-IT Solar-powered Transmitter (Sensor):**

Solar panel
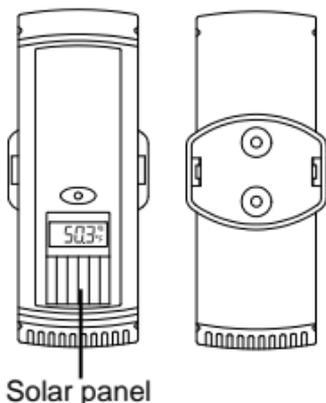
- Transmits outdoor temperature to indoor receiver using 915 MHz signals
- 200 FT. wireless transmission range (open air).
- Built-in rechargeable alkaline power cells store solar power for continuous operation.
- No batteries necessary (internal power cells cannot be replaced; contact customer service for a replacement sensor)

ACTIVATE SOLAR-POWERED OUTDOOR TRANSMITTER

1.   Press the RESET key on the Sensor to activate the solar-powered transmitter and link it to the Temperature station.

NOTE: The solar panel needs light from a 60W light bulb or brighter during the activation process. Do not cover solar panel with hands or other objects.

TX62U-IT transmitter RESET key:
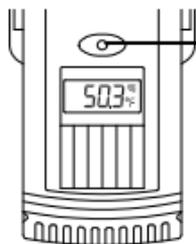
RESET key

NOTE: Do not use sharp objects to press the RESET key. Use a small dull pointed object or a straightened paper clip to gently press the RESET key to commence NORMAL MODE.

SOLAR-POWERED TRANSMITTER OPERATION MODES

(1) NORMAL MODE:
- NORMAL MODE occurs when the battery voltage is 2.5V or greater.
- It measures and transmits temperature / humidity (weather) data to the indoor receiver every 8 seconds.

- It checks the brightness level of the surrounding environment every 5 seconds.
- It measures / transmits every 16 seconds if it detects a dark environment or if the battery voltage drops below 2.5V.

(2) IDLE MODE:
- If the battery voltage drops below 2.4V, it commences IDLE MODE; the LCD turns off and it does not measure / transmit weather data.
- It checks the brightness level of the surrounding environment every 5 seconds.
- If battery voltage rises back to 2.5V or above, it returns to NORMAL MODE.
- If the environment remains dark for 72 hours, it commences STOP MODE.

(3) STOP MODE (STANDBY):
- Occurs when the environment remains dark for 72 hours OR if you manually commence STOP MODE (standby) by covering the solar cell for 10 seconds and then press the RESET key one time.
- **NOTE**: The LCD will display "StP" then turn off and commence STOP MODE.
- While in STOP MODE (standby), the LCD is off and the Sensor does not perform any normal operations.
- To resume normal operation, ensure the Sensor is in a bright environment (next to a

60W light bulb or similar condition) and press the RESET key to return to NORMAL MODE (battery voltage is higher than 2.5V).

MIN/MAX:
Press and release the MIN/MAX button to view:

- Outdoor Temperature minimum and maximum.
- Indoor temperature minimum and maximum.
- Outdoor minimum Temperate and Indoor humidity.

RESET MIN/MAX:
Press and hold the MIN/MAX button for 5 seconds to reset the indoor and outdoor minimum and maximum temperatures to current temperatures.

DISPLAY POWER SAVE MODE:
The LCD will automatically turn OFF if the environment is dark to save power. The LCD will automatically turn ON if the environment is bright enough. This is not adjustable.

STOP MODE
If the Solar Station is placed in a dark environment for 72 hours continually, the station will go to the stop mode:

- The Solar Station will not perform any operation and the LCD will also be OFF.
- Press the MIN/MAX key to wake up the Solar Station.

LOW BATTERY INDICATOR:
• RX Low battery indicator is displayed on the LCD when the receiver battery voltage is low.
• TX Low battery indicator is displayed on the LCD when the transmitter battery voltage is low.

## SOLAR-POWERED OUTDOOR TRANSMITTER (915MHZ RECEPTION)

The Temperature Station receives outdoor data every 48 seconds. If it does not receive the temperature data within 2 minutes after set-up (or the display shows "- - -"), then please check the following points:

1. The distance of the Temperature Station or the Sensor should be at least 6 feet (2 meters) away from any interfering sources such as computer monitors or TV sets.
2. Avoid placing the Temperature Station onto or in the immediate proximity of metal window frames.
3. Using other electrical products such as headphones or speakers operating on the same signal frequency (915MHz) may prevent correct signal transmission and reception.
4. Neighbors using electrical devices operating on the 915MHz signal frequency can also cause interference.

NOTE: When the 915 MHz signal is received correctly, do not re-open the battery cover of the

Temperature Station, as the batteries may spring free from the contacts and force a false reset. Should this happen accidentally then reset all units (see "**TO INSTALL / REPLACE BATTERY IN THE SOLAR STATION**" and "**INITIAL SETUP**" above) otherwise transmission problems may occur.

The maximum transmission range is 200 feet (60.96 m) from the outdoor transmitter to the Solar Station (in open space). However, this depends on the surrounding environment and interference levels. If no reception is possible despite the observation of these factors, all system units have to be reset (see "**TO REPLACE BATTERIES IN THE TEMPERATURE STATION**" and "**INITIAL SETUP**").

TO REPLACE BATTERIES IN THE TEMPERATURE STATION
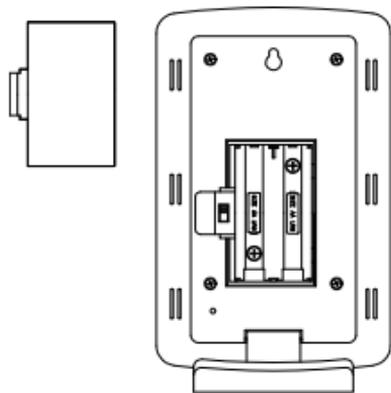
Do not mix old and new batteries. Do not mix alkaline, standard or rechargeable batteries.
The Temperature Station uses either the included 2 x solar- rechargeable batteries (charged by

solar panel) or 2 x AA standard alkaline batteries (non-rechargeable; not included).

The Temperature Station comes with <u>special solar-rechargeable</u> batteries that should provide many years of service. If the batteries lose their ability to hold a charge, please dispose of them responsibly.

<u>Do NOT attempt to recharge the included solar-rechargeable batteries outside of the WS-6020U</u>.Use standard alkaline batteries or contact customer support for more information.

Once the solar-rechargeable batteries are removed from the Temperature Station, <u>slide the battery switch to the down position before replacing the batteries</u>.

REGARDLESS OF THE TYPE OF BATTERIES TO BE INSTALLED, THE BATTERY SWITCH <u>MUST</u> BE IN THE <u>DOWN</u> POSITION WHEN THE BATTERIES ARE INSERTED.

If new solar rechargeable batteries are used, the battery switch should be moved to the UP, SOLAR position <u>AFTER</u> they are inserted in the unit.

REPLACE INCLUDED SOLAR RECHARGEABLE BATTERIES WITH STANDARD ALKALINE BATTERIES
1.   Remove the included solar rechargeable batteries from the compartment.

2. Slide the battery switch to the DOWN to select the alkaline battery.
3. Insert new, 2 x standard alkaline batteries into the compartment, observing the correct polarity (see marking inside battery compartment or on the case).
4. Replace battery cover

NOTE: For best performance, standard alkaline batteries should be replaced at least once every 2 years to maintain the best running accuracy. Ensure that the batteries used are new and the correct size.

Please help in the preservation of the environment and return used batteries to an authorized depot.

SETUP AFTER INITIAL START-UP / REPLACING THE BATTERIES

1. After powering up the Temperature Station, all LCD segments will light up briefly and it will show the time (12:00), indoor temperature, date, and indoor humidity.
2. After the batteries are inserted, the Temperature Station will start receiving data signal from the Sensor. The outdoor temperature and humidity data should be displayed on the Temperature Station. If this does not happen after 2 minutes, please remove the batteries from the Temperature Station, slide the battery switch down, insert

the batteries back into the Temperature station (slide the switch to the up if using the included solar-rechargeable batteries), press the RESET key on the Sensor and follow the set up process again.

3. The distance between the Temperature Station and the Sensor should not be more than 200 feet (60.96m) to ensure sufficient 915 MHz transmission.

   NOTE: When changing the batteries:
   1. Be careful that they do not spring free from the contacts.
   2. Press any button 20 times with the batteries removed.
   3. Wait at least 10 minutes after removing batteries before re-inserting them to avoid start-up problems.

WARNING! "Do NOT recharge the included solar rechargeable batteries in any device other than the product they came with. Recharging the rechargeable solar batteries in battery chargers or other third party devices will damage the batteries and charging device."

POSITIONING THE TEMPERATURE STATION:
Stand the Temperature Station on a table top, counter or desk, or mount is on a wall.

Ensure that the Temperature Station continuously receives the 915MHz signal from the Sensor before mounting it in the desired location. The Temperature Station should be placed in a bright environment for the solar cell to collect enough light to recharge the included solar-rechargeable batteries.

WALL MOUNTING
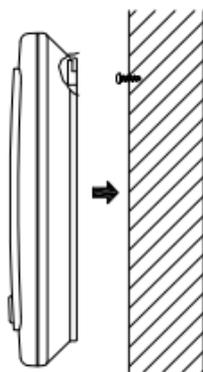
1. Install a mounting screw (not included) into a wall—leaving approximately 3/16 of an inch (5mm) extended from the wall.
2. Place the Temperature Station onto the screw, using the hanging hole on the backside. Gently pull the Temperature Station down to lock the screw into place.

NOTE: Always ensure that the Temperature Station locks onto the screw before releasing.

TABLE STAND: Attach the base stand to the bottom/back on the Temperature Station. Place of desk or table.

POSITIONING THE SOLAR TRANSMITTER (SENSOR):
It is important to place the Sensor in a bright environment for the solar panel to collect enough

light to recharge the internal power cell. It is best mounted on an East wall to receive cool morning sun to charge. Under an overhang will provide protection from the overhead sun, which can cause temperature inaccuracies.

The Sensor can be placed onto any flat surface or wall mounted using the bracket which doubles as a stand or wall mount base.

WALL MOUNTING

Secure the bracket onto desired wall using screws and plastic anchors. Clip the solar Sensor onto the bracket.

NOTE: The mounting surface can affect the transmission range. If, for instance, the Sensor is attached to a piece of metal, it may then either reduce or increase the transmitting range. For this reason, we recommend not to place the unit on any metal surfaces or in any position where a large metal or highly polished surface is in the immediate vicinity (garage doors, double glazing, etc.). Before securing the Sensor in place, please ensure that the Temperature Station continuously receives the 915MHz signal from the Sensor from the desired location.

SPECIFICATIONS:
Indoor Temperature:
Measuring range: 16°F to 140°
("--.-" or "--.0" is displayed when the indoor temperature is outside this range)
Measured period: every 2 minutes
Indoor Humidity:
Humidity measuring range: 20% to 95%
(19%RH will be displayed if the reading is lower than 20%, 96% will be displayed if the reading is higher than 95%)
Measured period: every 2 minutes
Outdoor Temperature:
Measuring range: -39.2°F to 139.8°F
("--.-" or "--.0" is displayed when the indoor temperature is outside this range)
Measured period: every 48 seconds
Dimensions:
Receiver: 3.58" x 5.70 " x 1.14"
Sensor: 1.42" x 4.04" x 0.63"

WARRANTY INFORMATION
La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures.

Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd.

Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need or repair, you will be charged for the repairs or examination.

The owner must pay any shipping charges incurred in getting your La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service center.

Your La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any

accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in your owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference.

This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

Contact info for warranty or technical support:

The complete instruction manual is available at:
www.lacrossetechnology.com/6020

Le manuel d'instruction complet est disponible sur:
www.lacrossetechnology.com/6020

El manual de instrucciones completo está
disponible en: www.lacrossetechnology.com/6020

Product Registration:
www.lacrossetechnology.com/support/register.php

Contact Support: 1-608-782-1610

FCC ID: OMO-M-10 (transmitter)
FCC DISCLAIMER

RF Exposure mobile:
The internal / external antennas used for this mobile transmitter must provide a separation distance of at least 20 cm (8 inches) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

Statement according to FCC part 15.19:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Statement according to FCC part 15.21:
Modifications not expressly approved by this company could void the user's authority to operate the equipment.

Statement according to FCC part 15.105:
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help